

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD2098</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 2098 Cache and Haas Slough</b>	<b>U</b>	<b>10.96</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	3.29		3.29	30.02%		
Trim / Thin Trees	0.01		0.01	0.09%		
<i>Supplemental</i>						
USACE Erosion Survey	0.02		0.02	0.18%		
<i>LMA Totals:</i>	3.32	0.00	3.32	30.29%	0.00	0.00

  

<b>Unit No. 01 Yolo Bypass RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD2098</b>	<b>U</b>	<b>3.58</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	3.29		3.29	91.90%		
<i>Unit Totals:</i>	3.29	0.00	3.29	91.90%	0.00	0.00

  

<b>Unit No. 01A Cross Levee RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD2098</b>	<b>A</b>	<b>0.55</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
No Items						
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.00	0.00

  

<b>Unit No. 02 Cache Slough LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD2098</b>	<b>A</b>	<b>2.01</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
No Items						
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.00	0.00

  

<b>Unit No. 03 Haas Slough RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD2098</b>	<b>A</b>	<b>1.89</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.53%		
<i>Unit Totals:</i>	0.01	0.00	0.01	0.53%	0.00	0.00

  

<b>Unit No. 04 Back Levee LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD2098</b>	<b>A</b>	<b>2.93</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.01		0.01	0.34%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.34%		
<i>Unit Totals:</i>	0.02	0.00	0.02	0.68%	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

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	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Right	3.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/20/2011 - 4/20/2011		10/20/2011 - 10/20/2011	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hardesty RD 2098	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Yolo Bypass						Right	3.58	10/20/2011 10/20/2011	Herman Phillips	

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.329118 ° -121.694060 °	38.329118 ° -121.694060 °	3 Y
2	0.00	0.00	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.329118 ° -121.694060 °	38.329118 ° -121.694060 °	7 Y
3	0.17	1.95	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.326610 ° -121.694064 °	38.300761 ° -121.693626 °	1
4	0.22	1.71	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.325896 ° -121.694065 °	38.304308 ° -121.693669 °	2

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.58	10/20/2011 10/20/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking down unit 1 from levee mile 0.00 waterside. Photo taken 10-20-2011.	
phillips_f_20111212_151.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Unit 1 looking downstream landward from levee mile 0.00. Photo taken 10-20-2011.	
phillips_f_20111212_152.jpg	

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 01A Cross Levee			Right	0.55
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/20/2011 - 4/20/2011		10/19/2011 - 10/19/2011	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hardesty RD 2098	

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee						Right	0.55	10/19/2011 10/19/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.277411 ° -121.696281 °	38.277411 ° -121.696281 °	2 Y
2	0.00	0.00	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.277411 ° -121.696281 °	38.277411 ° -121.696281 °	4 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.55	10/19/2011 10/19/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Landward levee slope levee mile 0.00 Unit 1A.  
Photo taken 10-19-2011.

phillips\_f\_20111212\_153.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Waterward levee slope Unit 1A looking  
downstream from levee mile 0.00. Photo taken  
10-19-2011.

phillips\_f\_20111212\_154.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	2.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/20/2011 - 4/20/2011		10/19/2011 - 10/19/2011	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hardesty RD 2098	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	2.01	10/19/2011 10/19/2011	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	5.29	5.29	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.275706 ° -121.705698 °	38.275706 ° -121.705698 °	3 Y
2	5.29	5.29	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.275706 ° -121.705698 °	38.275706 ° -121.705698 °	4 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	2.01	10/19/2011 10/19/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	5.29
End Levee Mile	5.29
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 5.29 Unit 2 waterward levee slope. Photo taken 10-19-2011.

phillips\_f\_20111212\_155.jpg



Levee Mile Report Line	2
Start Levee Mile	5.29
End Levee Mile	5.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 5.29 landside. Photo taken 10-19-2011.

phillips\_f\_20111212\_156.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 03 Haas Slough			Right	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/20/2011 - 4/20/2011		10/19/2011 - 10/19/2011	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hardesty RD 2098	

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Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough						Right	1.89	10/19/2011 10/19/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	7.10	7.15	Earthen Levee	Cracking	LS	C	Monitor and have inspected by geotechnical engineer.	38.292980 ° -121.721892 °	38.292995 ° -121.723093 °	1
2	7.30	7.30	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.294171 ° -121.725037 °	38.294171 ° 121.725037 °	5 Y
3	7.30	7.30	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.294171 ° -121.725037 °	38.294171 ° -121.725037 °	6 Y
4	7.33	7.33	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Large vertical erosion pockets and bank slumping. [2011 Site ID: HAS_7-9_R]	38.294858 ° -121.725433 °	38.299606 ° -121.728621 °	7
5	7.70	7.74	Earthen Levee	Cracking	WS	C	Monitor and have inspected by geotechnical engineer.	38.298843 ° -121.728588 °	38.299450 ° -121.728463 °	2

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.89	10/19/2011 10/19/2011	Herman Phillips

Levee Mile Report Line	2
Start Levee Mile	7.30
End Levee Mile	7.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 7.30 Unit 3.  
Phot taken 10-19-2011.

phillips\_f\_20111212\_157.jpg



Levee Mile Report Line	3
Start Levee Mile	7.30
End Levee Mile	7.30
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 7.30 Unit 3.  
Photo taken 10-19-2011.

phillips\_f\_20111212\_158.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway			Bank	Unit Miles
Unit No. 04 Back Levee			Left	2.93
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/20/2011 - 4/20/2011		10/19/2011 - 10/19/2011	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mike Hardesty RD 2098		Mike Hadesty RD 2098	

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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee						Left	2.93	10/19/2011 10/19/2011	Herman Phillips

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	9.19	9.19	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.316669 ° -121.740071 °	38.316669 ° -121.740071 °	2 Y
2	9.19	9.19	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.316669 ° -121.740071 °	38.316669 ° -121.740071 °	3 Y
3	9.46	9.46	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. [2011 Site ID: HAS_9-7_L]	38.320240 ° -121.740183 °	38.324587 ° -121.740254 °	4 Y
4	9.81	9.81	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.324993 ° -121.740082 °	38.324993 ° -121.740082 °	1
5	10.93	10.94	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.340930 ° -121.740783 °	38.341077 ° -121.740735 °	10

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.93	10/19/2011 10/19/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 9.19 Unit 4.  
Photo taken 10-19-2011.

phillips\_f\_20111212\_159.jpg



Levee Mile Report Line	2
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 9.19  
landward slope. Photo taken 10-19-2011.

phillips\_f\_20111212\_160.jpg



Levee Mile Report Line	3
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_HAS\_9-7\_L\_1.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 2098 Cache and Haas Slough**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.93	10/19/2011 10/19/2011	Herman Phillips

Levee Mile Report Line	3
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_HAS\_9-7\_L\_2.jpg



Levee Mile Report Line	3
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_HAS\_9-7\_L\_3.jpg



Levee Mile Report Line	3
Start Levee Mile	9.46
End Levee Mile	9.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011\_HAS\_9-7\_L\_4.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected